

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An analytic device with an automatic pipette, comprising:
 - a robotic arm ~~comprising that is structurally coupled to~~ (1) a pipette tip receiving element ~~and (2) a manipulator~~, wherein the robotic arm is configured to allow translation of translate the pipette tip receiving element along at least two of an x-coordinate, a y-coordinate, and a z-coordinate, ~~and wherein the (2)-a manipulator that is~~ configured to allow pushing of push a biochip from one location in the analytic device to another location, ~~and~~ wherein the manipulator is further configured to allow movement of the manipulator ~~be movable~~ in a linear and in a rotational motion;
 - wherein the pipette tip receiving element is further ~~comprises structurally coupled to~~ a sensor, ~~wherein the sensor is configured to allow detection of that detects~~ presence of a disposable polymer pipette tip, ~~and wherein the receiving element is~~ further configured to allow removable coupling of the disposable polymer pipette tip that is removably coupled to the pipette tip receiving element;
 - a first energy source and a first energy detector operably coupled to the pipette tip receiving element, ~~such that wherein the~~ first energy source is configured to allow providing of provides a first energy to a volume of a liquid that is aspirated into enclosed by the pipette tip without passing across a wall of the tip, and ~~wherein such that the~~ first energy detector is configured to allow receiving receives at least a portion of the first energy from the volume without the portion of the first energy passing across the wall of the tip;
 - a second energy source and a second energy detector structurally coupled to the pipette tip receiving element, ~~such that wherein the~~ second energy source is configured to allow providing of provides a second energy to a surface of a biochip when the pipette tip approaches the surface of the biochip, and ~~wherein such that the~~ second energy detector is configured to allow receiving receives at least part of the second energy from the surface; and

- a processor electronically coupled to the first and second energy detectors, wherein the processor is configured to allow calculation of ~~calculate~~ an accurate aspiration volume of a predetermined volume using a signal from the first detector, and wherein the processor is further configured to allow control of ~~controls~~ movement of the pipette tip along a z-coordinate using a signal from the second detector.
2. (original) The analytic device of claim 1 wherein the first energy source comprises a laser, and wherein the first energy is provided to the volume via a light guide.
 3. (currently amended) The analytic device of claim 2 wherein the processor is further configured to allow calculation of accurate aspiration ~~is calculated~~ from a reflected light signal that is detected by the first energy detector.
 4. (original) The analytic device of claim 2 wherein the second energy source comprises an ultrasound transducer.
 5. (original) The analytic device of claim 1 wherein the sensor comprises an optoelectronic sensor.
 6. (original) The analytic device of claim 1 wherein the disposable pipette tip has a volume of equal or less than 200 microliter.
 7. (canceled)
 8. (currently amended) The analytic device of claim 1 further comprising a data transfer interface that is configured to allow export of data from the device.
 9. (currently amended) The analytic device of claim 1 wherein the data transfer interface is configured to allow providing of ~~provide~~ data to a person other than the operator, wherein the person is in a remote location relative to the analytic device.
 10. (currently amended) The analytic device of claim 1 further comprising a sample station with a multiwell plate and a multi-reagent pack, wherein the robotic arm is further configured to allow removal of ~~pipette tip removes~~ a fluid from ~~at least one of the multi-~~

well plate and the multi-reagent pack and dispensation of dispenses the fluid onto the surface of the biochip using the pipette tip.

11. (withdrawn) An automatic pipette in an analytic device comprising a disposable pipette tip and a first and a second sensor, wherein the first sensor detects a volume of a liquid within the pipette tip and wherein the second sensor detects a vertical distance between the pipette tip and a biochip that is disposed in the analytic device.
12. (withdrawn) The automatic pipette of claim 11 wherein the pipette tip has a volume of equal or less than 200 microliter.
13. (withdrawn) The automatic pipette of claim 11 wherein the first sensor comprises a laser that delivers a laser beam into the pipette tip.
14. (withdrawn) The automatic pipette of claim 13 wherein the volume of the liquid is determined using at least one of a destructive interference, a constructive interference, a phase modulation, and a triangulation.
15. (withdrawn) The automatic pipette of claim 11 wherein the second sensor comprises an sound transducer that delivers a sound beam to a surface of the biochip.
16. (withdrawn) The automatic pipette of claim 15 wherein the vertical distance is determined using a time-of-flight calculation.
17. (withdrawn) The automatic pipette of claim 11 wherein first and second sensors are coupled to a robotic arm that moves the pipette along at least one of an x-coordinate, a y-coordinate, and a z-coordinate.
18. (withdrawn) The automatic pipette of claim 11 further comprising a third sensor that detects coupling of the disposable pipette tip to the automatic pipette.
19. (withdrawn) The automatic pipette of claim 11 further comprising a data transfer interface.

20. (withdrawn) The automatic pipette of claim 11 wherein the data transfer interface provides data to a person other than the operator, and wherein the person is optionally in a remote location relative to the analytic device.